

RUSSWIN



SKYSCRAPERS

THEATRES

SCHOOLS

HOSPITALS

FACTORIES

HARDWARE

SPECIALTIES

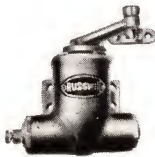
The Specialties in This Catalog

In the following pages we present eight outstanding hardware specialties—each of timely interest to the architect and building contractor. These specialties illustrate the wide scope of RUSSWIN Hardware.



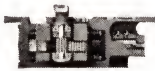
RUSSWIN FIRE EXIT BOLTS

Four important grades for all types of structures . . . double or single-acting . . . top and bottom or side latching . . . incorporating many unique features, including the exclusive *Rotary Action* that insures positive operation always.Page 3



RUSSWIN LIQUID DOOR CLOSER

Designed for closing all types of doors from light screen doors to heavy exterior doors . . . also for hospital, coupon booth and fire doors . . . crank shaft type construction . . . can be equipped with hold-open arm.Page 13



RUSSWIN "400" SEMI-CONCEALED DOOR CLOSER

For metal or wood interior and inswinging exterior doors . . . strong and extremely powerful . . . closes doors quietly, firmly . . . easily handles doors subject to severe draft conditions . . . only a comparatively small portion of mechanism extends beyond door surface.Page 16



RUSSWIN-NEWTON INVISIBLE DOOR CLOSER

For single-acting interior doors . . . totally concealed and absolutely reliable . . . mortised in jamb of door . . . only *one* size case . . . no frame head necessary. Page 18



RUSSWIN-NEWTON CHECKING PIVOTS

For W.C. stall doors, office railing gates and similar dwarf doors . . . complete noiseless control . . . holds door all the way open or all the way closed . . . applicable to all frontal materials and all types of posts . . . only *two* moving parts. Page 20

RUSSWIN LAVATORY DOOR HARDWAREPage 23

RUSSWIN "EVERLOCK" CASEMENT OPERATORPage 24

RUSSWIN SHUTTER WORKERPage 25

RUSSWIN *Complete Line of Builders' Hardware*

The complete line of RUSSWIN Hardware embraces a varied and unusually extensive selection of hardware for practically every requirement . . . locks of every description . . . trim in a wide variety of patterns . . . butts . . . garage hardware —and all other hardware necessary for a complete installation.

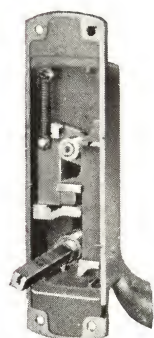
RUSSELL & ERWIN MANUFACTURING COMPANY

THE AMERICAN HARDWARE CORPORATION, SUCCESSOR

NEW BRITAIN • CONNECTICUT

RUSSWIN "PANIC PROOF"

FIRE EXIT BOLTS • WITH "ROTARY ACTION"



Showing Rotary
Action of Spindle

RUSSWIN Fire Exit Bolts are designed for use on exterior and interior doors in auditoriums, dormitories, halls, schools, theaters and any building where a *safe and sure exit* is desired at any time.

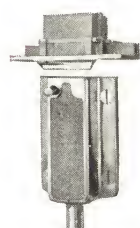
They are automatic in action. The slightest pressure, on the bar or lever on the inside of the door automatically and instantly releases the lock and the bolts at all times. RUSSWIN Bolts comply with all state and city ordinances.

PERTINENT FEATURES

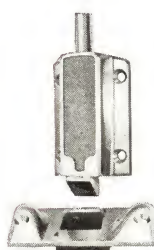
POSITIVE ROTARY ACTION: A superior feature of the RUSSWIN Fire Exit Bolt is its Rotary Action. This action is similar to that of a knob and eliminates any possibility of binding. Free and easy action is guaranteed. The slightest pressure on the cross bar is at once transferred to the locking mechanism of the bolt and immediate action is assured. There is not the possibility of binding as there is when the action used is similar to that of the thumb-piece action of an entrance door lock. *Rotary Action is an exclusive feature found only in RUSSWIN Fire Exit Bolts.*

EXTRUDED METAL USED: Another important feature that insures accuracy of operation is a noteworthy improvement in lock parts. For, wherever possible, RUSSWIN lock parts are made from *extruded metal* which compares favorably with drop forgings.

OTHER IMPORTANT FEATURES: In addition, RUSSWIN Bolts offer several advantages in their operation. They are self-latching; they automatically lock the door as soon as it is closed and thereby make locking inspection unnecessary. When the doors are opened the top and bottom bolts are held in a retracted position until the door is closed—consequently make possible the use of standard strikes and eliminates detailing of sills and head jambs. Their locking device is so made that the latches, bolts and bars can be held in a retracted position when doors are not required to be locked. This eliminates any possibility of tampering and reduces wear on the parts. In addition there is a compensating spring latch on the bottom rod. Should the bottom strike become obstructed, this spring latch, working independent of the rod, does not hinder the operation of the top latch which locks at all times.



Top Case of
40 Bolt



Bottom Case of
40 Bolt

FOUR IMPORTANT TYPES

HEAVY DUTY RIM TYPE • SIDE LATCHING: This is the newest type RUSSWIN Bolt and is proving exceedingly popular for both single doors and double doors with removable pipe mullions. It fulfills all safety requirements and gives the positive action characteristic of RUSSWIN top and bottom latching bolts. Because of a reduced number of parts, this bolt is sold at an attractive price. With but a single point of contact, it offers less chance of trouble due to shrinkage of doors or jambs.Page 4

HEAVY DUTY • TOP AND BOTTOM LATCHING: This is our highest quality line. On this type, the top and bottom latch bolts are fully enclosed. This gives a most pleasing appearance highly favored by many architects. The Bolts are constructed of solid brass or bronze and have the characteristic RUSSWIN rotary action.Page 6

STANDARD WEIGHT • TOP AND BOTTOM LATCHING: This group has the same quality of construction and the same operating mechanism as our Heavy Duty line—but its top and bottom latch bolts are not fully enclosed and the operation of the strike is slightly modified. It is consequently sold at a lower cost.Page 8

INEXPENSIVE • TOP AND BOTTOM LATCHING: This group is recommended for installations where low cost combined with sturdy construction is important.Page 11



Bottom Rod of
25 Bolt

6 REASONS WHY RUSSWIN RIM FIRE EXIT BOLTS ARE SPECIFIED

UNIT PRINCIPLE

The RUSSWIN Rim Fire Exit Bolt is of unit type construction; all working parts are enclosed within the active case on the inside of the door. It is the building up of one part upon another to form a complete unit, each part in its proper relation to the other, forming a perfect piece of mechanism. When applied to the door there is no possibility of binding. The smoothness of action is assured.

CONSTRUCTION

All interior working parts are of special hard bronze. Due to the few working members within the cases all parts are extra large and heavy, assuring long life and trouble-free service.

APPLICATION

Being one complete unit the rim bolt is applied entirely on the surface of the door, no mortising being necessary.

USES

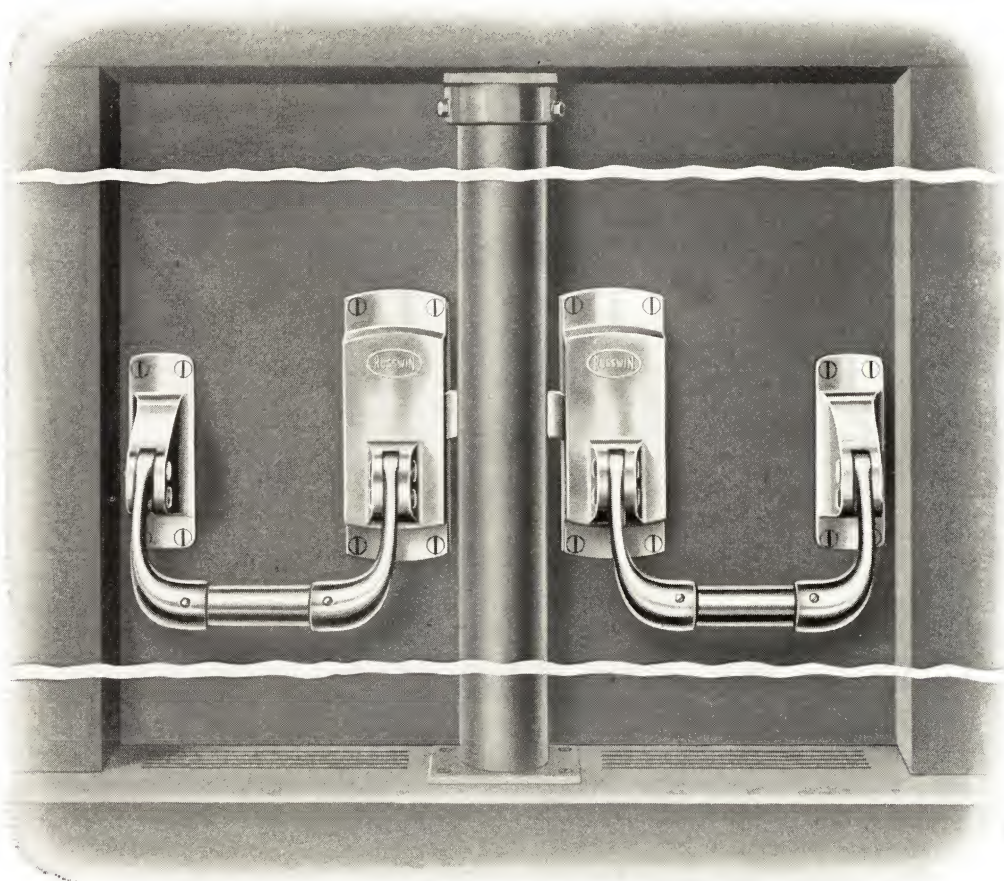
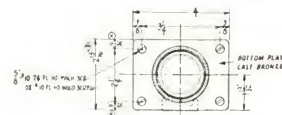
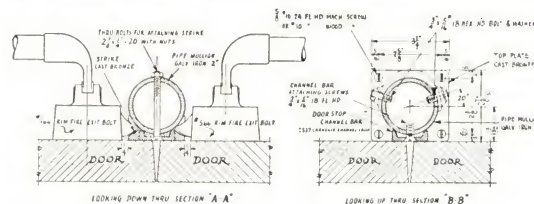
RUSSWIN rim bolts are for use on Single or Pairs of Entrance and Exit Doors. On Pairs of doors either a stationary mullion is required or a removable mullion, as shown below can be furnished with the panic bolt for use with regular pairs of doors. The use of a mullion affords a more satisfactory method of locking than is possible on regular pairs of doors, as each door is securely locked into the mullion.

APPEARANCE

RUSSWIN rim fire exit bolts are much more pleasing in appearance than the standard type of bolt as they eliminate the use of top and bottom rods.

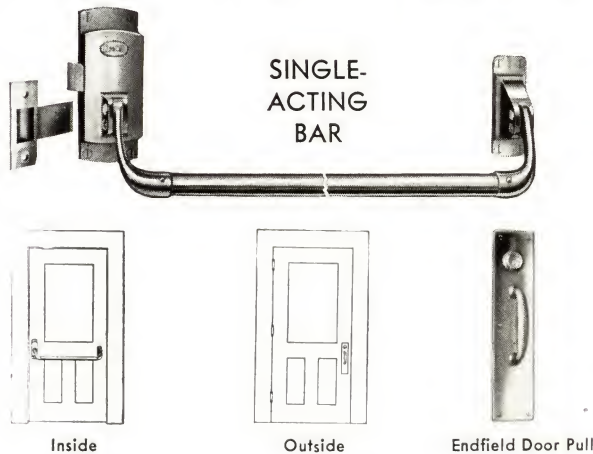
SAFETY

The slightest touch on the crossbar at any point instantly releases the bolt and assures immediate exit at all times.



FOR SINGLE DOORS AND DOUBLE DOORS WITH REMOVABLE MULLION EXIT AND ENTRANCE

No. 566 • Rim Type • With Endfield Door Pull and Escutcheon



A slight push on the bar instantly retracts latch bolt and releases door from the inside. The bar can be held in depressed position (by a locking device with removable key in case at each end of bar) retracting latch bolt to allow operation of door without the necessity of operating the Exit Bolt. Key through the outside cylinder withdraws latch bolt. Latch bolt, however, can be held retracted **ONLY** when horizontal bar is held in depressed position. The Easy Closing Swinging Latch Bolt has a $\frac{3}{4}$ -inch throw and is protected to prevent insertion of instrument between latch bolt and strike. The lip of the strike extends $\frac{1}{4}$ inch beyond thickness of door, unless otherwise specified.

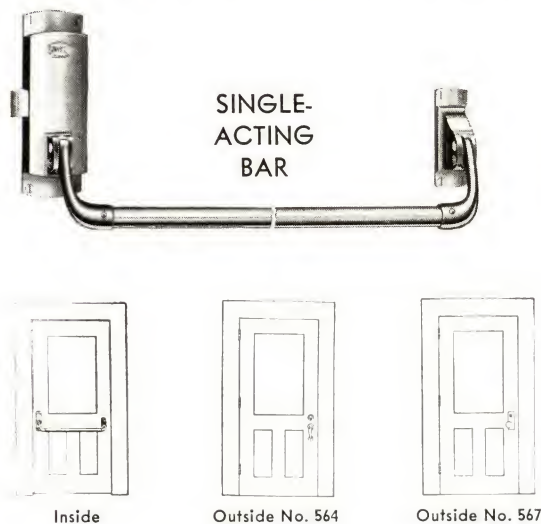
Master Keying: Can be master-keyed, grand master-keyed in sets, or keyed alike with other RUSSWIN Cylinder Locks.

BRASS OR BRONZE METAL: Furnished in Any Finish.

Number	Bar, in.	Active Case, in.	Supporting Case, in.	Outside Trim	Weight, lbs.
566	1	$7\frac{1}{4} \times 2\frac{3}{4}$	$4\frac{1}{2} \times 1\frac{13}{16}$	Endfield Door Pull	$13\frac{1}{2}$

FOR SINGLE DOORS AND DOUBLE DOORS WITH REMOVABLE MULLION EXIT AND ENTRANCE

No. 564 and No. 564 $\frac{1}{2}$ • Rim Type • With Sectional Trim
No. 567 and No. 567 $\frac{1}{2}$ • Rim Type • With Knob and Escutcheon



A slight push on the bar instantly retracts latch bolt and releases door from the inside. The bar can be held in depressed position (by a locking device with removable key in case at each end of bar) retracting latch bolt to allow operation of door without the necessity of operating the Exit Bolt.

On No. 564 and No. 567, key, through the outside cylinder, locks and unlocks thumb-piece or knob on the outside. The thumb-piece or knob, however, is automatically deadlocked when latch is withdrawn by key—and is unlocked by a reverse throw of the key. No. 564 $\frac{1}{2}$ and No. 567 $\frac{1}{2}$ have cylinders on *both* sides. Key through inside cylinder locks outside thumb-piece. Entrance from outside by key through outside cylinder.

The Easy Closing Swinging Latch Bolt has a $\frac{3}{4}$ -inch throw. The lip of strike extends $\frac{1}{4}$ inch beyond thickness of door, unless otherwise specified.

Master Keying: Can be master-keyed, grand master-keyed in sets, or keyed alike with other RUSSWIN Cylinder Locks.

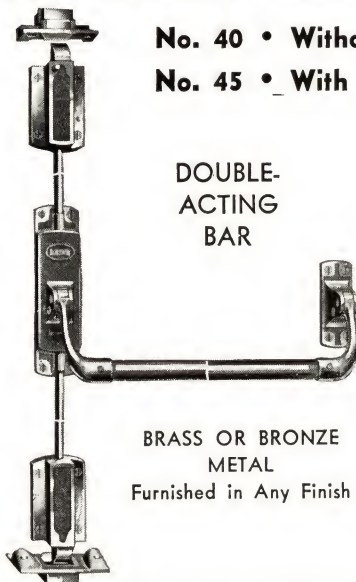
BRASS OR BRONZE METAL: Furnished in Any Finish.

Number	Bar, in.	Active Case, in.	Supporting Case, in.	Outside Trim	Weight, lbs.
564, 564 $\frac{1}{2}$	1	$8\frac{1}{4} \times 3$	$4\frac{1}{2} \times 1\frac{13}{16}$	Sectional Handle	$15\frac{1}{2}$
567, 567 $\frac{1}{2}$	1	$8\frac{1}{4} \times 3$	$4\frac{1}{2} \times 1\frac{13}{16}$	Knob and Escutcheon	16

R U S S W I N

HEAVY DUTY FIRE EXIT BOLTS • TOP AND BOTTOM LATCHING • Shown below and on the opposite page. These bolts are preferred by many architects as their top and bottom latch bolts are fully enclosed and thereby give a neat appearance.

FOR SINGLE DOORS • EXIT ONLY • EXIT AND ENTRANCE



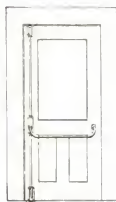
No. 40 • Without Exterior Trim • Exit Only

No. 45 • With Knob and Escutcheon • Exit and Entrance

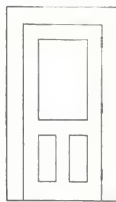
A slight push or pull on the bar at any time instantly retracts the top and bottom latches and releases the door from the inside. The horizontal bar can be held in depressed position (by a locking device with removable key in case at each end of bar) to allow use of door without the necessity of operating the Exit Bolt. When door is open, top and bottom latches are automatically held retracted until door is closed—eliminating the need of special lip strikes; bolts are thrown when trip on

top case contacts with strike. Compensating spring latch on the bottom rod works independent of the rod.

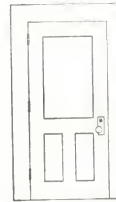
No. 45 can be used on single doors with narrow stiles. Its outside knob is locked and unlocked by a key through the Russwin ball-bearing outside cylinder.



Inside



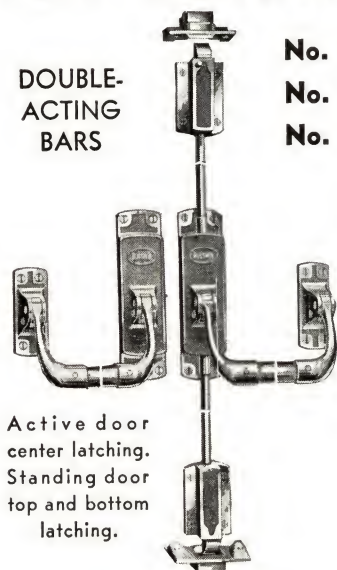
Outside No. 40



Outside No. 45

Number	Rod, in.	Bar, in.	Active Case, in.	Supporting Case, in.	End Case, in.	Outside Trim	Weight, lbs.
40	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	3 11/16 x 2 1/2	none	17 1/2
45	1/2	1	8 5/8 x 2 1/8	4 3/16 x 1 5/8	3 11/16 x 2 1/2	escutcheon	17 1/2

FOR DOUBLE DOORS • EXIT AND ENTRANCE



Active door center latching. Standing door top and bottom latching.

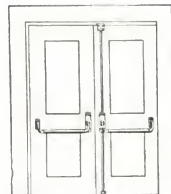
BRASS OR BRONZE METAL
Furnished in Any Finish.

No. 40 x 66 • With Handle and Thumb-Piece

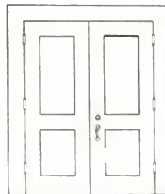
No. 40 x 67 • With Knob and Escutcheon

No. 40 x 68 • With Knob and Escutcheon • Bitted Key

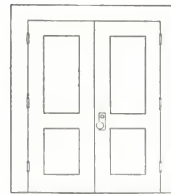
A slight push or pull on either bar at any time instantly retracts latches and releases the doors from the inside. The bars can be held in depressed position (by a locking device with removable key in case at each end of bar) to allow use of doors without the necessity of operating the Exit Bolts. Key through outside cylinder locks and unlocks outside thumb-piece or knob. Key can also hold latch bolt retracted (on No. 68 only when horizontal bar is held in depressed position). When standing door is open, its top and bottom latches are automatically held retracted until door is closed. Compensating spring latch on bottom rod works independent of rod. Auxiliary latch dead-locks latch bolt.



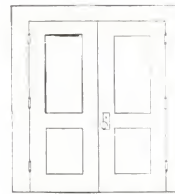
Inside



Outside No. 40 x 66



Outside No. 40 x 67



Outside No. 40 x 68

Number	Rod, in.	Bar, in.	Active Case, in.	Supporting Case, in.	End Case, in.	Lock	Outside Trim	Weight, lbs.
40 x 66	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	3 11/16 x 2 1/2	9452*	sectional	27
40 x 67	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	3 11/16 x 2 1/2	9458*	escutcheon	26
40 x 68	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	3 11/16 x 2 1/2	0444 3/4*	escutcheon	25 1/2

*See page 12.

FOR DOUBLE DOORS • INSIDE AND OUTSIDE LOCKING

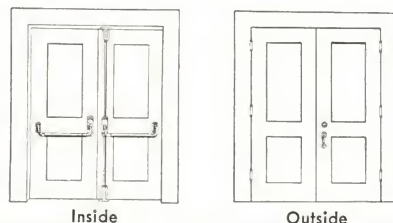
No. 40 x 66½ • Thumb-Piece Locked with Key through Inside Cylinder

A slight push or pull on either bar instantly retracts latches and releases the door from the inside. The bars can be held in depressed position (by a locking device with removable key in case at each end of each bar) retracting latches to allow use of doors without the necessity of operating Exit Bolt. Key through inside cylinder (on No. 66½) locks and unlocks outside thumb-piece—also can hold latch bolt retracted. Entrance is gained with key through outside cylinder. When standing door is open, its top and bottom latches are automatically held retracted until door is closed. Compensating spring latch on the bottom rod works independent of the rod. Auxiliary latch deadlocks latch bolt.

BRASS OR BRONZE METAL: Furnished in Any Finish.

DOUBLE-ACTING BARS

Active door center latching. Standing door top and bottom latching.



Number	Rods in.	Bar in.	Active Case, in.	Supporting Case, in.	End Case, in.	Lock No.	Outside Trim	Weight lbs.
40 x 66½	½	1	8½ x 2½	4¾ x 1⅝	31½ x 2½	9452½*	sectional	27¼

*See Page 12.

FOR DOUBLE DOORS • EXIT AND ENTRANCE

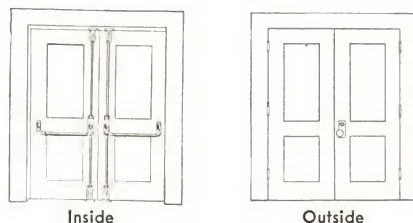
No. 43 x 45 • For Knob Locked from Outside through Outside Cylinder

A slight push or pull on either bar instantly retracts latches and releases the door from the inside. Bars can be held in depressed position (by a locking device with removable key in case at each end of each bar) retracting latches to allow use of doors without the necessity of operating Exit Bolts. Key through the outside cylinder (on No. 45) locks and unlocks the outside knob. When either doors are open, its top and bottom latches are automatically held retracted until door is closed—thereby eliminating the use of special lip strikes. Compensating spring latch on the bottom rod works independent of the rod.

BRASS OR BRONZE METAL: Furnished in Any Finish.

DOUBLE-ACTING BARS

Both doors top and bottom latching.



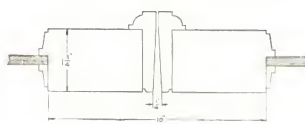
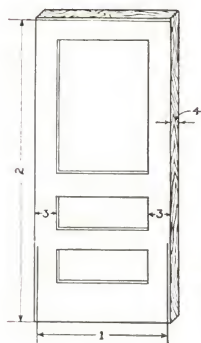
Number	Rods in.	Bar in.	Active Case in.	Supporting Case, in.	End Case in.	Cylinder No.	Outside Trim	Weight lbs.
43 x 45	½	1	8⅝ x 2½	4¾ x 1⅝	31½ x 2½	1290	knob and escutcheon	29

Recommendations for Specifying RUSSWIN Fire Exit Bolts

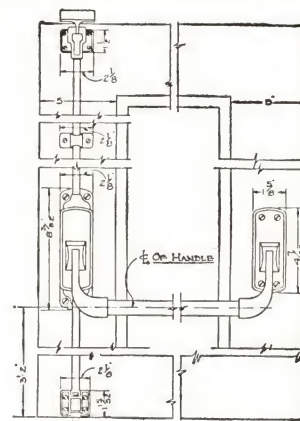
The diagram at right gives a typical installation detail. The split astragal for double doors shown below is recommended with all RUSSWIN Fire Exit Bolts.

Necessary details and measurements of doors (from inside):

- (1) Width (each individual door) allowing for stop.
- (2) Height of door between threshold and stop.
- (3) Width of stile.
- (4) Thickness.
- (5) Give detail of astragal.
- (6) Specify if for right hand reverse bevel or left hand reverse bevel door—taken from outside.



- (7) If pairs of doors are used specify hand of door on which the lock is applied.
- (8) Distance from floor to center of cross-bar should be 38 inches.
- (9) When sill is not flat show section through it with relation to door.



No. 60 PANIC BOLT APPLIED

R U S S W I N

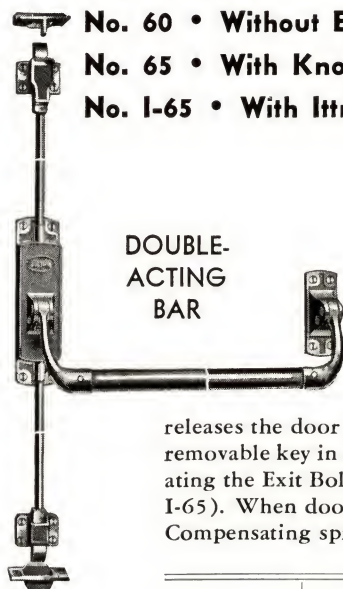
STANDARD TYPE FIRE EXIT BOLTS • TOP AND BOTTOM LATCHING • Shown below and on pages 9 and 10. This style is the same as the Heavy Duty type (pages 6 and 7) except the top and bottom latch bolts are not fully enclosed and operate slightly differently. Consequently, this group is lower in price — but of the same high quality as the Heavy Duty type.

FOR SINGLE DOORS • EXIT ONLY • EXIT AND ENTRANCE

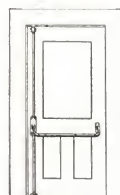
No. 60 • Without Exterior Trim • Exit Only

No. 65 • With Knob and Escutcheon • Exit and Entrance

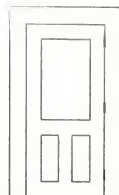
No. I-65 • With Ittner Outside Trim • Exit and Entrance



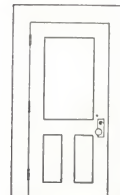
DOUBLE-
ACTING
BAR



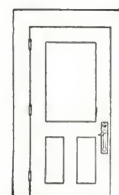
Inside



Outside No. 60



Outside No. 65



Outside No. I-65



Ittner
Outside Trim

A slight push or pull on the bar instantly retracts top and bottom latches and releases the door from the inside. The bar can be held in depressed position (by a locking device with removable key in case at each end of bar) retracting latches to allow use of door without necessity of operating the Exit Bolt. Key, through outside cylinder, locks and unlocks knob (on No. 65) or lever (on No. I-65). When door is open, top and bottom latches are automatically held retracted until door is closed. Compensating spring latch on bottom rod works independent of rod.

BRASS OR
BRONZE
METAL: Fur-
nished in Any
Finish.

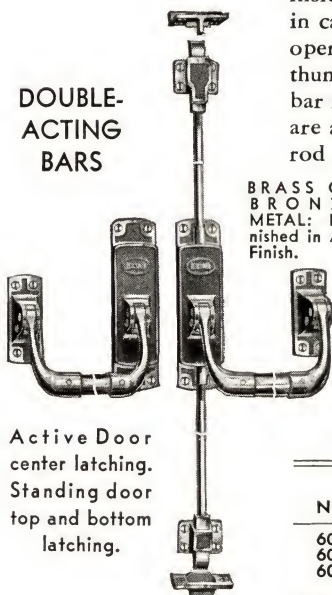
Number	Rod, in.	Bar, in.	Active Case, in.	Supporting Case, in.	Outside Trim	Weight, Lbs.
60	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	none	16
65	1/2	1	8 5/8 x 2 1/8	4 3/16 x 1 5/8	Knob and Escutcheon	17
I-65	1/2	1	8 5/8 x 2 1/8	4 3/16 x 1 5/8	Ittner Trim	16

FOR DOUBLE DOORS • EXIT AND ENTRANCE

No. 60 x 66 • With Handle and Thumb-piece

No. 60 x 67 • With Knob and Escutcheon

No. 60 x 68 • With Knob and Escutcheon—Bitted Key

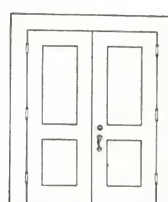


DOUBLE-
ACTING
BARS

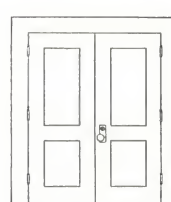
BRASS OR
BRONZE
METAL: Fur-
nished in Any
Finish.



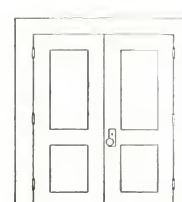
Inside



Outside
No. 60 x 66



Outside
No. 60 x 67



Outside
No. 60 x 68

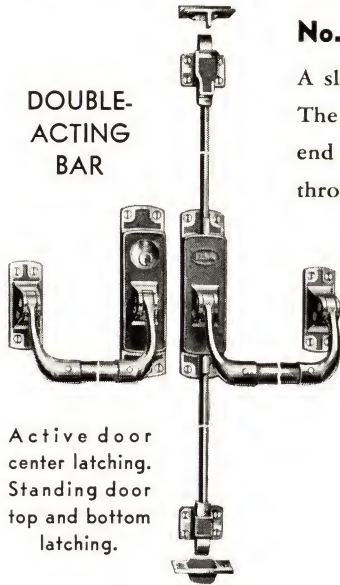
Active Door
center latching.
Standing door
top and bottom
latching.

A slight push or pull on either bar instantly retracts latches and releases the doors from the inside. The bars can be held in depressed position (by a locking device with removable key in case at each end of bar) retracting latches to allow use of doors without the necessity of operating the Exit Bolts. Key through outside cylinder locks or bitted key unlocks outside thumbpiece or knob. Key can also hold latch bolt retracted (on No. 68 *only* when horizontal bar is held in depressed position). When standing door is open, its top and bottom latches are automatically held retracted until door is closed. Compensating spring latch on bottom rod works independent of rod. Auxiliary latch deadlocks latch bolt.

Number	Rods, in.	Bar, in.	Active Case in.	Supporting Case in.	Lock No.	Outside Trim	Weight, lbs.
60 x 66	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9452*	sectional Knob and Escutcheon Knob and Escutcheon	31
60 x 67	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9458*		31 1/2
60 x 68	1/2	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	0444 3/4*		25 1/2

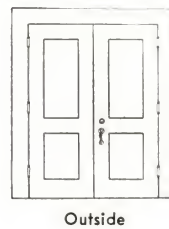
*See page 12.

FOR DOUBLE DOORS • INSIDE AND OUTSIDE LOCKING



No. 60 x 66 $\frac{1}{2}$ • Handle and Thumb-piece Locked by Key through Inside Cylinder

A slight push or pull on either bar instantly retracts latches and releases the door from the inside. The bars can be held in depressed position (by a locking device with a removable key in case at each end of bar) retracting latches to allow use of doors without the necessity of operating Exit Bolt. Key through inside cylinder (on No. 66 $\frac{1}{2}$) locks and unlocks outside thumb-piece—also can hold latch bolt retracted. Entrance is gained with key through outside cylinder. When standing door is open, its top and bottom latches are automatically held retracted until door is closed. Compensating spring latch on the bottom rod works independent of the rod.



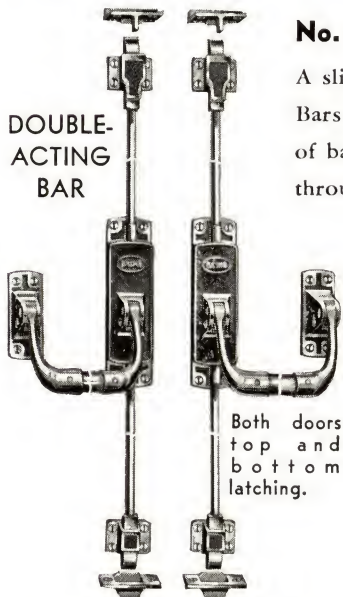
Auxiliary latch deadlocks latch bolt.

BRASS OR BRONZE METAL
Furnished in Any Finish

Number	Rods, in.	Bar, in.	Active Case, in.	Supporting Case in.	Lock No.	Outside Trim	Weight, lbs.
60 x 66 $\frac{1}{2}$	$\frac{1}{2}$	1	8 $\frac{1}{16}$ x 2 $\frac{1}{8}$	4 $\frac{3}{16}$ x 1 $\frac{5}{8}$	9452 $\frac{1}{2}$ *	sectional	31

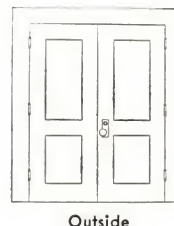
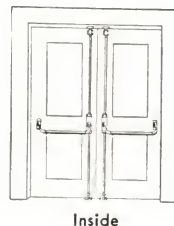
*See Page 12.

FOR DOUBLE DOORS • EXIT AND ENTRANCE



No. 63 x 65 • Knob and Escutcheon Locked from Outside

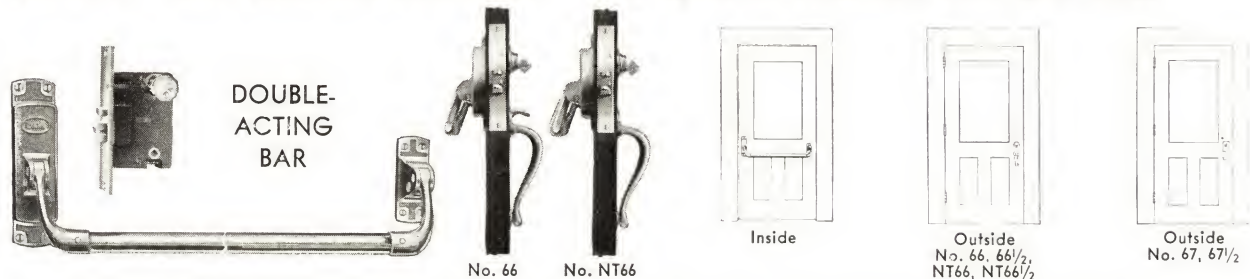
A slight push or pull on either bar instantly retracts latches and releases the door from the inside. Bars can be held in depressed position (by a locking device with removable key in case at each end of bar) retracting latches to allow use of doors without the necessity of operating Exit Bolts. Key through the outside cylinder (on No. 65) locks and unlocks the outside knob. When either door is open, its top and bottom latches are automatically held retracted until door is closed—thereby eliminating the use of special lip strikes. Compensating spring latch on the bottom rod works independent of the rod.



BRASS OR BRONZE METAL
Furnished in Any Finish

Number	Rods, in.	Bar, in.	Active Case, in.	Supporting Case, in.	Cylinder	Outside Trim	Weight, lbs.
63 x 65	$\frac{1}{2}$	1	8 $\frac{5}{8}$ x 2 $\frac{1}{8}$	4 $\frac{3}{16}$ x 1 $\frac{5}{8}$	1290	Knob and Escutcheon	32

R U S S W I N

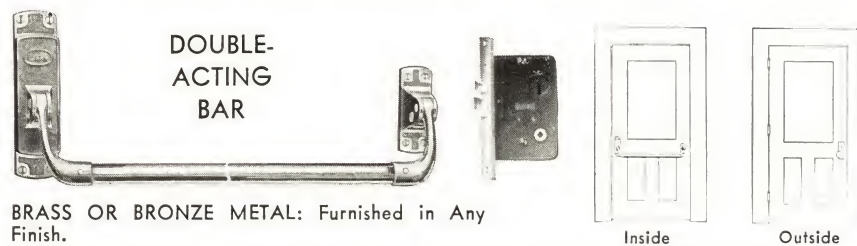
FOR SINGLE DOORS • EXIT AND ENTRANCE**No. 66 • With Handle and Thumb-piece • One Cylinder Operated from Outside****No. 66½ • With Handle and Thumb-piece • Two Cylinders Operated from Both Sides****No. NT66 • With Handle • One Cylinder Operated from Outside****No. NT66½ • With Handle • Two Cylinders Operated from Both Sides****No. 67 • With Knob and Escutcheon • One Cylinder Operated from Outside****No. 67½ • With Knob and Escutcheon • Two Cylinders Operated from Both Sides**

A slight push or pull on bar instantly releases door from inside. Bar can be held in depressed position (by a locking device with removable key in end cases). On No. 66 and 67, key through *outside* cylinder locks and unlocks outside thumb-piece or knob—which are automatically deadlocked when latch is withdrawn by key and are released by reverse

throw of key. On No. 66½ and 67½, key through *inside* cylinder locks and unlocks outside thumb-piece or knob. Key through *outside* cylinder retracts latch bolt. On No. NT66 and NT66½, key through *outside* cylinder withdraws latch bolt. Auxiliary latch deadlocks latch bolt. BRASS OR BRONZE METAL; furnished in any finish.

Number	Bar, in.	Active Case, in.	Supporting Case, in.	Lock No.	No. of Cylinder	Outside Trim	Weight, lbs.
66	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9452*	1	thumb-piece	15
NT66	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9452*	1	handle	15
66½	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9452½*	2	thumb-piece	15
NT66½	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9452½*	2	handle	15
67	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9458*	1	knob and escutcheon	15½
67½	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	9458½*	2	knob and escutcheon	15½

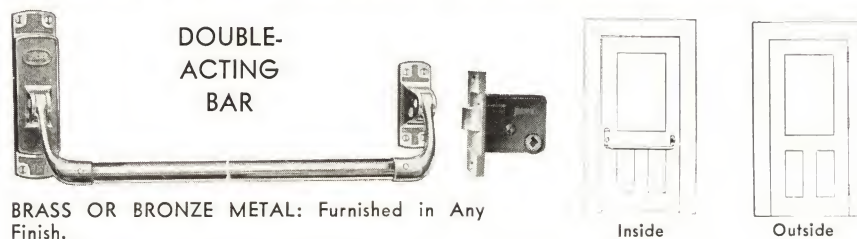
*See Page 12.

FOR SINGLE DOORS • EXIT AND ENTRANCE**No. 68 • Locked from Outside by Bitted Key**

A slight push or pull on the bar instantly releases door from the inside. Bar can be held in depressed position (by a locking device with removable key in end cases). Key, from the outside, locks and unlocks the knob. When door is unlocked, auxiliary latch is held in retracted position. Auxiliary latch automatically deadlocks latch bolt. Latch bolt can only be held retracted when bar is held in depressed position.

Number	Bar, in.	Active Case, in.	Supporting Case, in.	Lock No.	Outside Trim	Weight, lbs.
68	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	0444¾*	knob and escutcheon	13 1/2

*See Page 12.

FOR SINGLE DOORS • EXIT ONLY**No. 69 • With Mortise Latch Only****No. 69A • With Mortise Latch and Auxiliary Deadlock**

A slight push or pull on the bar instantly releases door from the inside. Bar can be held in depressed position (by a locking device with removable key in end cases). Latch bolt can be held retracted only when bar is held in depressed position. To prevent retraction of latch bolt from outside, latch on No. 69A automatically deadlocks latch bolt.

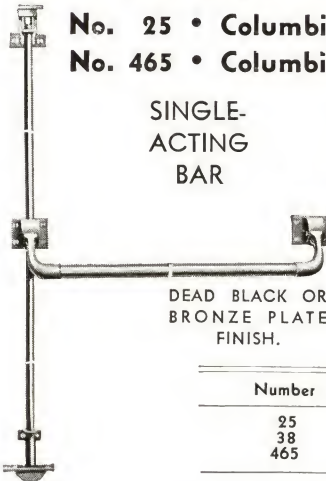
Number	Bar, in.	Active Case, in.	Supporting Case, in.	Latch No.	Outside Trim	Weight, lbs.
69	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	0440*	None	12
69A	1	8 1/16 x 2 1/8	4 3/16 x 1 5/8	0441*	None	12

*See Page 12.

FIRE EXIT BOLTS • *Inexpensive*

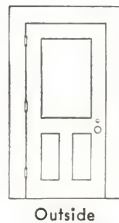
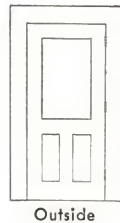
WITH "ROTARY ACTION"

FOR SINGLE DOORS • EXIT ONLY • EXIT AND ENTRANCE



No. 25 • Columbia Gravity Locking • Without Exterior Trim • Exit Only

No. 465 • Columbia Gravity Locking • With Knob and Escutcheon • Exit and Entrance



A slight pressure on the horizontal bar instantly releases door from the inside. The bolt is automatically held in unlocked position until the door is closed. Then bolt is thrown when lever on top case contacts with strike. Compensating end on bottom rod work independent of rod.

On No. 465, key through outside cylinder locks and unlocks outside knob.

No. 38, same as No. 25 except all brass or bronze metal.

Number	Rods, in.	B. r. in.	Supporting Case, in.	Operating Case, in.	Weight, lbs.
25	1/2	3/4	1 7/8 x 2 5/16	1 7/8 x 2 5/16	10
38	1/2	3/4	1 7/8 x 2 5/16	1 7/8 x 2 5/16	10
465	1/2	3/4	1 7/8 x 2 5/16	1 7/8 x 2 5/16	12

FOR SINGLE DOORS • EXIT ONLY • EXIT AND ENTRANCE

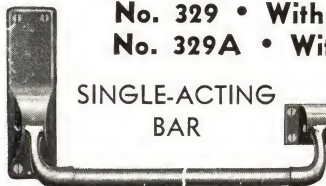
No. 326 • With Thumb-piece and Handle • Exit and Entrance

No. 327 • With Knob and Escutcheon • Exit and Entrance

No. 328 • With Bitted Key • Exit and Entrance

No. 329 • With Mortise Latch • No Trim • Exit Only

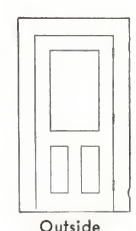
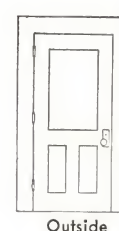
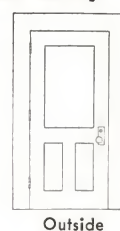
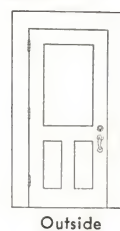
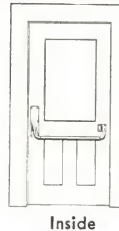
No. 329A • With Mortise Latch with Auxiliary Latch • Exit Only



Slight pressure on bar instantly releases door from inside. Key from outside locks and unlocks thumb-piece or knob on outside. Latch bolt on No. 326 and

327 may be held in retracted position by holding latch bolt retracted with thumb-piece and turning key toward back of lock. When knob on No. 328 is unlocked, auxiliary latch is held in retracted position. No. 329 and 329A operate ONLY by bar from inside. No outside trim.

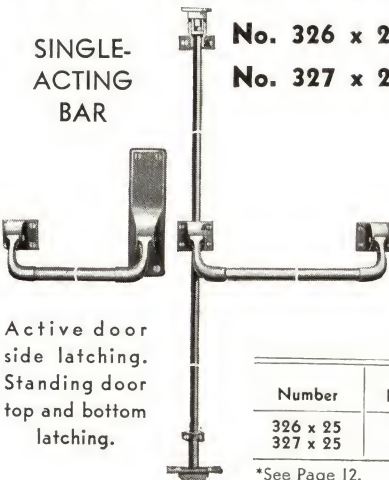
DEAD BLACK FINISH



Number	Bar, in.	Supporting Case, in.	Lock No.	Outside Trim	Weight, lbs.
326	3/4	1 7/8 x 2 5/16	9452*	Handle	11
327	3/4	1 7/8 x 2 5/16	9458*	Knob and Escutcheon	11
328	3/4	1 7/8 x 2 5/16	0444 3/4*	Knob and Escutcheon	9 1/2
329	3/4	1 7/8 x 2 5/16	0440*	None	8
329A	3/4	1 7/8 x 2 5/16	0441*	None	8

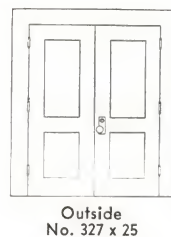
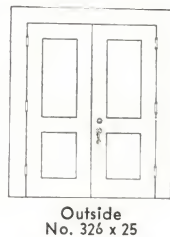
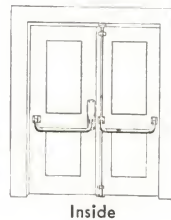
*See Page 12.

FOR DOUBLE DOORS • EXIT AND ENTRANCE



No. 326 x 25 • With Handle

No. 327 x 25 • With Knob and Escutcheon



A slight pressure on either bar at any time instantly releases doors from the inside. The top and bottom bolts on the standing door are automatically held retracted until door is closed. Key, through outside cylinder, locks and unlocks thumb-piece or knob on the outside. Latch bolt may be held in a retracted position by holding latch bolt retracted with thumb-piece and turning key toward back of lock.

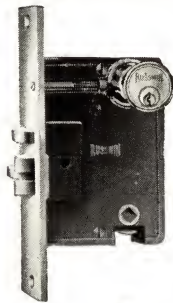
DEAD BLACK FINISH

Number	Rods, in.	Bar, in.	Active Case, in.	Supporting Case in.	Lock No.	Outside Trim	Weight, lbs.
326 x 25	1/2	3/4	8 x 2 1/4	1 7/8 x 2 5/16	9452*	Handle	21
327 x 25	1/2	3/4	8 x 2 1/4	1 7/8 x 2 5/16	9458*	Knob and Escutcheon	21

*See Page 12.

MORTISE LOCKS • USED ON RUSSWIN FIRE EXIT BOLTS

These mortise locks are especially designed for use on RUSSWIN fire exit bolts, described on the preceding pages. The fire bolts operate the latch bolts with a *rotary action*, insuring instant and certain action. Cylinder Lock Nos. 9452 and 9458 are for entrance doors and can be master keyed in any RUSSWIN cylinder lock system. The latch bolts on these locks can be held retracted by means of a key. No. 0444³/₄ is for entrance doors and can be master-keyed in RUSSWIN bitted key system.



Lock
No. 9452
No. 9452¹/₂

No. 9452 • For Use with Bolts No. 66 and NT66 (page 10)

With one cylinder, changes practically unlimited.

Latch bolt can be operated from inside at all times by the slightest pressure on bar or lever pad, and by thumb-piece from outside, except when it is deadlocked by key. The thumb-piece is automatically deadlocked when latch bolt is withdrawn by key and when thus locked remains so until unlocked by a reverse throw of key. When thumb-piece is locked, latch bolt may be held in a retracted position by holding latch bolt retracted with thumb-piece and turning key toward back of lock.

Auxiliary latch automatically deadlocks and safeguards latch bolt, preventing it from being retracted by any instrument inserted between face of lock and strike.



Lock
No. 9458
No. 9458¹/₂

No. 9452¹/₂ • For Use with Bolts No. 66¹/₂ and NT66¹/₂ (page 10)

Same as No. 9452, except has two cylinders. The inside cylinder locks and unlocks the thumb-piece and operates to hold the latch in a retracted position. The outside cylinder only retracts the latch.

No. 9458 • For Use with Bolt No. 67 (page 10)

Same as No. 9452, except operations by thumb-piece as noted are performed by knob from outside.

No. 9458¹/₂ • For Use with Bolt No. 67¹/₂ (page 10)

Same as No. 9458, except has two cylinders. The inside cylinder locks and unlocks the knob and operates to hold the latch in a retracted position. The outside cylinder only retracts the latch.

General Construction and Dimensions of Above Locks

Case: cast iron, japanned; 5¹/₄ x 3¹³/₁₆ x ⁷/₈ in.

Front: cast brass or bronze; 8 x 1¹/₄ in.

Bolts: cast bronze.

Strike: cast brass or bronze; 1¹/₄ in. lip to center

Backset: 2³/₄ in.

Hub: brass; for ³/₈-in. spindle.

Hand: not reversible; specify hand.



Lock
No. 0444³/₄

No. 0444³/₄ • For Use with Bolt No. 68 (page 10)

Latch bolt can be operated from inside at all times by the slightest pressure on bar, and by knob from outside, except when it is deadlocked by key. When knob is unlocked, the auxiliary latch is held in a retracted position. When knob is locked, the auxiliary latch is released, and it automatically deadlocks and safeguards the latch bolt, preventing it from being retracted by any instrument inserted between face of lock and strike.

Case: cast iron, japanned; 5¹/₂ x 3³/₄ x ³/₄ in.

Front: cast brass or bronze; 7³/₈ x 1¹/₈ in.

Bolts: cast bronze.

Strike: wrought brass or bronze; 1¹/₄ in. lip to center.

Backset: 2³/₄ in.

Spacing: 2⁵/₈-in.

Hand: reversible.

MORTISE LATCHES • USED ON RUSSWIN FIRE EXIT BOLTS

Latch bolt can be operated from inside at all times by the slightest pressure on bar. If outside trim is used, latch bolt can be operated from outside at all times by knob.



Latch
No. 0440

No. 0440 • For Use with Bolt No. 69 (page 10)

Case: cast iron, japanned; 2⁵/₈ x 3⁵/₈ x ¹¹/₁₆ in.

Front: recessed; cast brass or bronze; 4⁷/₁₆ x 1⁵/₁₆ in.

Strike: cast brass or bronze; 1¹/₄ in. lip to center.

Backset: 2¹¹/₁₆ in.

Knob Hub: brass; for ³/₈-in. spindle.

Hand: not reversible; specify hand.

No. 0441 • For Use with Bolt No. 69A (page 10)

Auxiliary latch automatically deadlocks and safeguards latch bolt, preventing it from being retracted by any instrument inserted between face of lock and strike.

Case: cast iron, japanned; 4¹/₂ x 3³/₄ x ⁷/₈ in.

Front: flat, cast brass or bronze; 6 x 1⁵/₁₆ in.

Strike: wrought brass or bronze; 1¹/₄ in. lip to center.

Backset: 2³/₄ in.

Knob Hub: brass; for ³/₈-in. spindle.

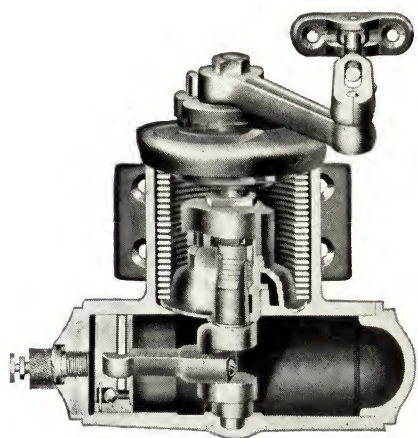
Hand: reversible.



Latch
No. 0441

RUSSWIN

LIQUID DOOR CLOSER



FOR INTERIOR AND EXTERIOR DOORS

THE RUSSWIN Liquid Door Closer is designed for closing all types of doors from light screen doors to heavy exterior doors, also hospital, coupon booth and fire doors. It incorporates many unusual features using a crank shaft type construction.

The crank shaft, in fact, is made of drop forged steel in one piece and is sufficiently large to sustain any severe shock to which it may be subjected. It is carefully and accurately machined to a smoothness that eliminates friction and assures long life.

FOUR POINT BEARING

The top cap or cover of the Closer forms the top bearing which sustains the direct thrust from the Closer arm. It has a generous area and is far enough from the gland packing to release it from any strain which might cause leakage.

The packing nuts in the gland form the two main bearings and they maintain the alignment of the shaft and take the thrust from the connecting rod and piston.

The bottom of the Closer furnishes the lower bearing and supports the bottom end of the shaft, which prevents lateral motion. This bearing shares the thrust of the piston with the main bearing, thus eliminating any deflection which would cause leakage through the gland.

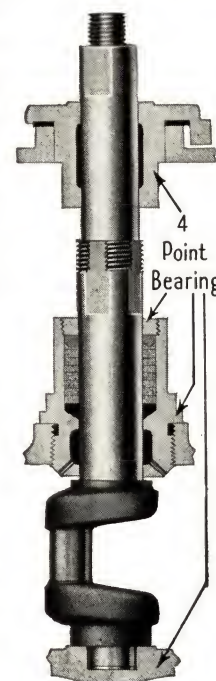
POSITIVE, QUIET OPERATION

The RUSSWIN Door Closer is reversible and operates a right or left hand door without reversing either the arm or the spring. The closing power is obtained from the coil spring. The checking power is controlled by a piston moving in a cylinder filled with a

special non-freezing liquid. As the door is opened, the piston is drawn toward the shaft and the liquid passes freely through the ball valve located at the bottom of the piston. As the door closes, the liquid confined by the piston can escape only through the part controlled by two regulating valves—a speed valve, controlling the door from its open position to within 6 inches of the jamb; and a quiet closing valve, controlling the door from within 6 inches of the jamb to its closed position. The liquid used is especially prepared to withstand wide ranges of temperature without change in density. This results in a uniform closing speed in winter and summer.

GUARANTEE

The RUSSWIN Door Closer is guaranteed against defects in material and workmanship. Every size Closer is thoroughly tested and ready to apply.



STANDARD MODEL LIQUID DOOR CLOSER

For Right or Left Hand Doors without Reversing Arm or Spring

The standard RUSSWIN Liquid Door Closer is furnished in six capacities with cast iron cases. The specifications below apply to doors under normal conditions. If the door is unusually heavy or is subject to very strong draughts, use one size larger than is specified.

TYPE OF DOOR	Designation in Cast Iron, Unpolished
For screen and light inside doors.	A
For inside doors not exceeding 3 feet in width.	B
For outside and vestibule doors, etc., not exceeding 2½ feet in width.	C
For outside doors not exceeding 3 feet in width.	D
For heavy outside doors exceeding 3 feet in width and large doors operated against strong draughts.	E
For extra heavy outside doors.	F

WITH FUSIBLE LINK • FOR FIRE DOORS

This Closer is equipped with the RUSSWIN Friction Hold-Open Arm designed for use on fire doors of warehouses, schools, office buildings, etc., where in the event of fire, the door can be quickly closed. To accomplish this, the Hold-Open device is constructed with a fusible link which, when subjected to 165° F., melts and releases the Hold-Open device. The Closer will then shut the door, temporarily preventing the spread of fire.

This type Closer is tested and approved by the National Board of Fire Underwriters Laboratories.

FOR HOSPITAL ROOM DOORS



This type Closer is arranged with a hold-open device to hold the door open at any one of three positions: 15°, 45°, or 90°. These angles may be varied—by loosening the set screw in the holding ring and turning it to the left or right.

The construction of this holding device is the plunger and pawl type, using a compression spring as a means of resistance.

WITH 100° OR 180° FRICTION HOLD-OPEN ARM

For Right or Left Hand Doors Without Reversing Arm or Spring

This type Closer is designed for doors opening to 100° or 180°. Its Hold-Open Arm eliminates the need of unsightly floor holders, hooks and similar devices—and their nuisance and damage to door and floor. The device, located in the elbow of the arms, can be adjusted to hold the door in any position. It does not interfere in any way with the regular movement of the door under control of the Closer. It is inoperative until the door is intentionally opened to the hold-open point.

To release the Hold-Open device, it is only necessary to push or pull the door past the holding point. The Closer then assumes its natural function and closes the door in the usual way.

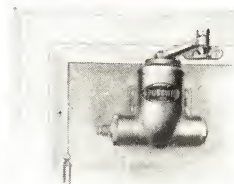
WITH PARALLEL ARMS

Not Reversible; Hand of Door Must be Specified

This Closer is designed with parallel arms for use on doors where there is not sufficient space between two doors for Closer to operate in its normal position—or where the headroom will not permit the use of a bracket.

BRACKETS FOR LIQUID DOOR CLOSERS

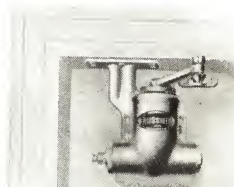
BLOCKING BRACKET • No. 33



The RUSSWIN Door Closer Bracket, as regularly furnished, is applied to the inner or hinge side of door (as shown at left). If, however, door is recessed $\frac{7}{8}$ in. or more beyond the casing surface, Bracket No. 33 should be used. This Bracket is furnished regular for doors recessed $\frac{3}{4}$ to $1\frac{7}{8}$ in. (if greater recess, specify) and allows Closer to occupy the same normal position and insures its satisfactory operation.

Size	A	B	C	D	E	F
Bracket, No.	33A	33B	33C	33D	33E	33F

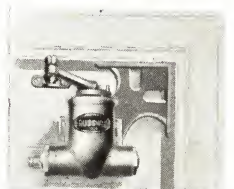
SOFFIT BRACKET • No. 127



Used where door opens outward, or where conditions do not permit the Closer to be applied to the hinge side of door. Minimum space required for attaching as follows:

Size	A	B	C	D	E	F
Space, In.	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$
Bracket, No.	127A	127B	127C	127D	127E	127F

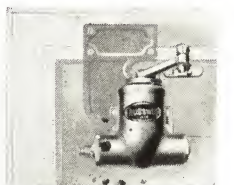
CORNER BRACKET • No. 128



Used under same conditions as No. 127—but does not require as much space. Fastened at *both* the top and side, each angle securely braced to give greater solidity to Closer. Minimum space required for attaching as follows:

Size	A	B	C	D	E	F
Space, In.	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
Bracket, No.	128A	128B	128C	128D	128E	128F

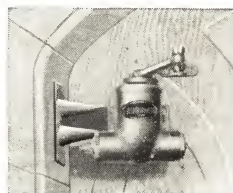
FLUSH BRACKET • No. 129



Used where soffit is not wide enough to furnish suitable footing for Bracket No. 127 or 128.

Size	A	B	C	D	E	F
Bracket, No.	129A	129B	129C	129D	129E	129F

STRAIGHT JAMB BRACKET • No. 30



Used on segment, circle or Gothic head doors—where intermediate rails permit or where panel is sufficiently thick to withstand strain. The Closer must be applied below point of radius. If sufficient headroom, use Bracket No. 31 or 32.

Size	A	B	C	D	E	F
Bracket, No.	30A	30B	30C	30D	30E	30F

HALF CIRCLE BRACKET • No. 31



Suitable for use only on segment, circle or Gothic head doors—when door is flush with or not recessed more than $1\frac{1}{4}$ in. beyond casing and when Closer is used on the hinge side of door. Bracket is attached to door.

Size	A	B	C	D	E	F
Bracket, No.	31A	31B	31C	31D	31E	31F

CURVED JAMB BRACKET • No. 32



For use on segment, circle and Gothic head doors opening out—or where conditions do not permit Closer to be applied on hinge side of door.

Size	A	B	C	D	E	F
Bracket, No.	32A	32B	32C	32D	32E	32F

Finishes of RUSSWIN Door Closers and Brackets

Unless otherwise specified, all Closers and Brackets are furnished with Maroon Bronze finish (symbol MB). At the same price, the following finishes can be supplied:

Silver Bronze (symbol SB) Olive Green (symbol OG)
Dead Black (symbol DB) Mahogany (symbol M)

R U S S W I N

R U S S W I N

"400" *Semi-Concealed* DOOR CLOSER

Rack and Pinion Construction—with "Silence Adjustment"



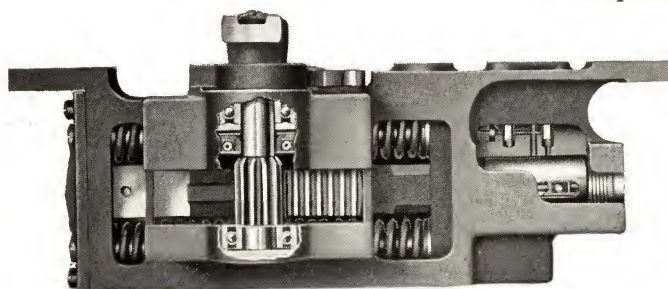
FOR INTERIOR DOORS AND IN-SWINGING EXTERIOR WOOD OR METAL DOORS

THIS recently developed Semi-Concealed Closer is the result of RUSSWIN'S twenty odd years of experience in manufacturing Invisible Door Closers. It combines perfect performance under difficult conditions with a trim, unobjectionable appearance.

The "400" Semi-Concealed Closer is strong in its structure and extremely powerful. Not only does it handle all interior and in-swinging exterior doors (within the range usually served by surface-applied closers)—closing them firmly, quietly, with practically no attention—but it easily handles doors subject to severe draught conditions. For efficiency, performance, strength and durability, the "400" is unequalled.

Years of experience have demonstrated that a door closer required to handle doors subjected to severe draughts cannot be dimensioned sufficiently small as to be totally enclosed within the top rail of the door. It was therefore necessary in the RUSSWIN "400" to permit a comparatively small portion of the mechanism to extend beyond the surface of the door and to see that the Semi-Concealed Closer utilize the type of arm that insures the most satisfactory Door Closer operation—the "broken" arm.

However, the visible portion of the Closer is so small and the modern design of its arm so unobtrusive, that it seems almost impossible to obtain such efficiency, strength and dependable performance from so small and compact a mechanism.

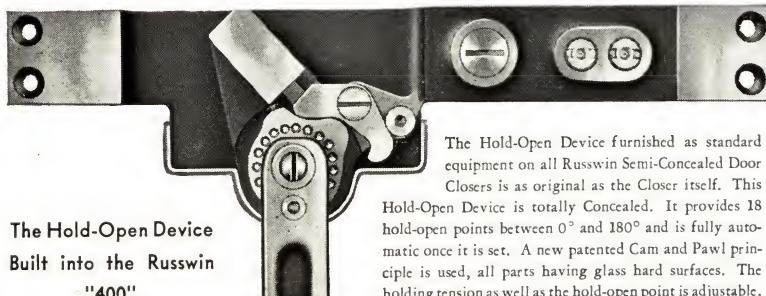


DURABLE CONSTRUCTION

The Case is nickel cast iron, precision machined. The Springs are helical automobile valve type, high carbon steel, oil tempered after winding. Piston is $1\frac{3}{4}$ inches long to give long bearing surface. The Piston is chrome-vanadium steel accurately cut (from a single piece of steel) and heat treated. The Rack is a nickel steel drop forging with accurately cut teeth and is heat treated.

THE DUAL CONTROL VALVES

The RUSSWIN "400" is controlled by dual valves (patented) with "SILENCE ADJUSTMENT." The wide range of valve movement eliminates fussy, hair-line adjustments. With the RUSSWIN "400" Semi-Concealed Door Closer, any desired manner of closing may be obtained. One valve controls the door up to approximately ten degrees of the latch, and the second valve controls the latching speed. The door may be closed in less than three seconds from 90° so quietly that there is no audible contact between the door and the stop. This is accomplished with the SILENCE ADJUSTMENT. The Latch Control Valve may be so adjusted that the speed of the door is hastened sufficiently to pull the stiffest latch beyond the lip of the strike and then the movement of the door may be so slowed down as to give noiseless complete closing, by means of the SILENCE ADJUSTMENT. If exceptionally strong draughts are encountered or if door or frame is warped the Closer may be so adjusted as to bring the door forcibly against the stop—insuring positive complete latching.



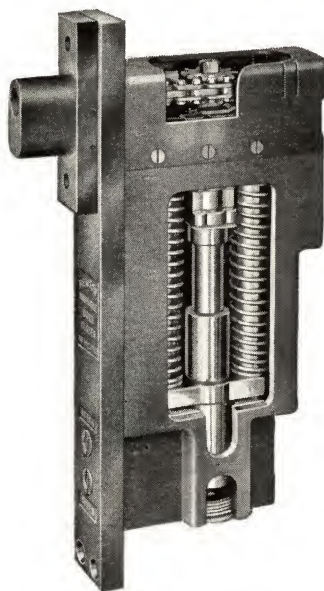
The Hold-Open Device
Built into the Russwin
"400"

The Hold-Open Device furnished as standard equipment on all Russwin Semi-Concealed Door Closers is as original as the Closer itself. This Hold-Open Device is totally Concealed. It provides 18 hold-open points between 0° and 180° and is fully automatic once it is set. A new patented Cam and Pawl principle is used, all parts having glass hard surfaces. The holding tension as well as the hold-open point is adjustable.

RUSSWIN-NEWTON

Invisible DOOR CLOSER

FOR SINGLE-ACTING INTERIOR DOORS



"Mortised Like a Lock"

THIS compact device—thoroughly modern in every respect—was developed to meet the wide demand for a door closer both totally concealed and absolutely reliable. Being totally out of sight, the RUSSWIN-NEWTON Invisible Door Closer cannot in any way mar the appearance of the door. It is therefore widely used in residences, churches, hotels, hospitals, office and public buildings—in fact wherever a visible door closer would materially detract from the beauty of the door and detract from the architectural treatment and decorative effect.

The RUSSWIN-NEWTON Invisible Door Closer however, is not designed to be concealed within the top rail of the door—a necessarily weak and far from practical construction. Instead it uses an entirely original, yet absolutely reliable principle of operation: *it is mortised into the jamb of the door*. Since 1932, this Invisible Door Closer has proved itself of sturdy construction and highly efficient for use with all types of interior single-swing doors and gates of wood, hollow metal, kalamein or tubular construction.

The entire operating mechanism is contained in one compact Case, making for simple installation. The depth of the Case is such that it can be accommodated within the usual standard 5-inch stile of metal doors, and no portion of the Closer extends into the rail of the door. The RUSSWIN-NEWTON Invisible Door Closer may be installed in either the frame or stile of wood doors.

IMPORTANT FEATURES

Although invisibility is the principal advantage of this Closer, other unique features have been developed. There is but one size of case—with several sizes of springs. Consequently there is but one size of mortise—Closers of all capacities being interchangeable in the same mortise. This is particularly important when installing the Closer on metal doors; regardless of the different heights, widths and weights of the door, the mortising, reinforcing and templating at once becomes standard.

Another feature of the RUSSWIN-NEWTON Invisible Door Closer is that it is entirely independent of the floor and requires no frame head. Because of its independence of the floor, details of floor construction need not be taken into consideration when specifying this Door Closer. No frame head being necessary, the RUSSWIN-NEWTON Invisible Door Closer may be used wherever there is a hinge jamb. The position of the RUSSWIN-NEWTON Invisible Door Closer and the fact that it pulls the door shut instead of pushing it, tends to prevent door sag and wear on the hinge knuckles.

SIMPLIFIED OPERATION

The Closer operates by means of a 5-thread, 30-degree lead, 2-way worm which passes through a nut. This nut acts as a piston and reciprocates vertically as the door is opened. Springs are of the compression automobile valve type; made of high carbon steel and oil tempered after winding.

THREE STANDARD SIZES

For Single Acting Interior Doors Only.

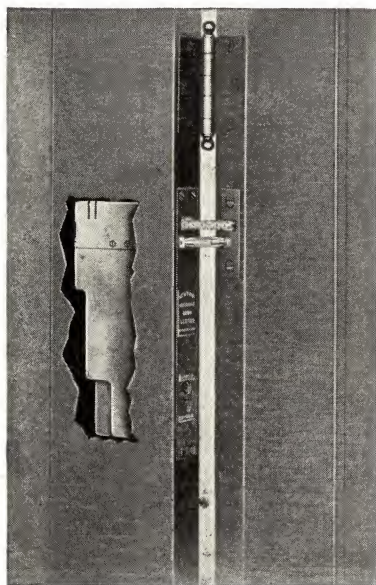
Size No. 1—For interior doors measuring 2 ft., 4 in. x 7 ft. x 1 $\frac{3}{4}$ in. Also for cage gates, railing gates, etc.

Size No. 2—For interior doors measuring not less than 2 ft., 6 in. x 7 ft. x 1 $\frac{3}{4}$ or 2 in.; or more than 3 ft. x 7 ft. x 1 $\frac{3}{4}$ or 2 in.

Size No. 4—For interior doors measuring not over 3 ft., 4 in. x 7 ft. x 1 $\frac{3}{4}$, 2 or 2 $\frac{1}{2}$ in.

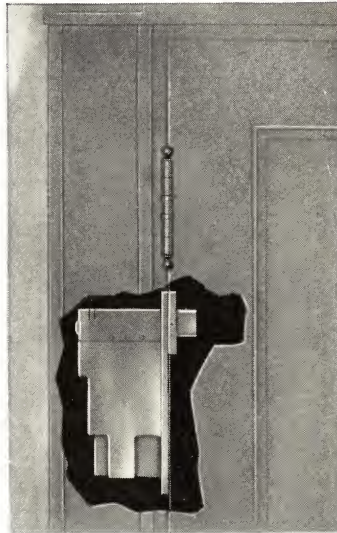
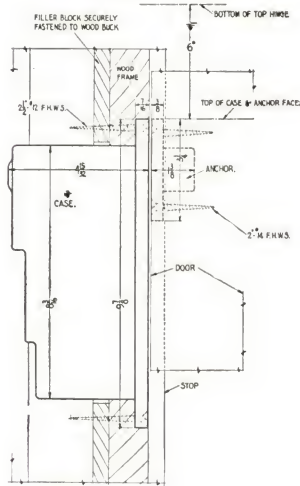
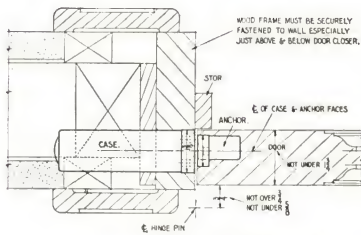
Minimum thickness for metal doors: 1 $\frac{1}{2}$ in.

Minimum thickness for wood doors: 1 $\frac{3}{4}$ in.



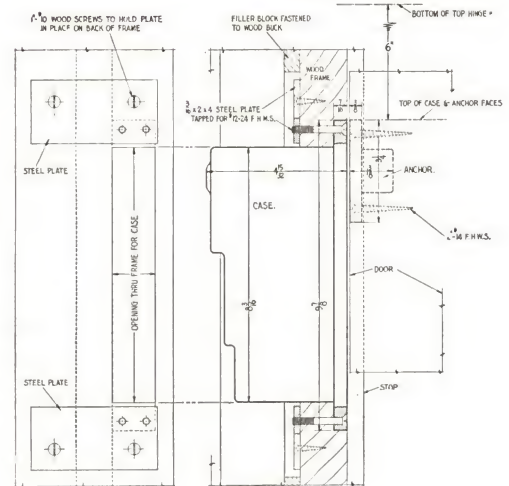
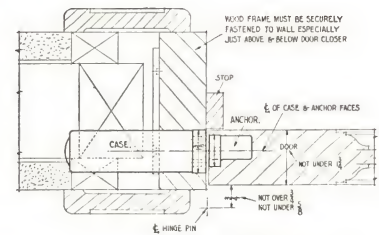
When the door is open, only the chain and checking shaft of the RUSSWIN-NEWTON Invisible Door Closer is visible.

EASILY APPLIED TO *Wood* DOORS AND FRAMES ON EXISTING WORK

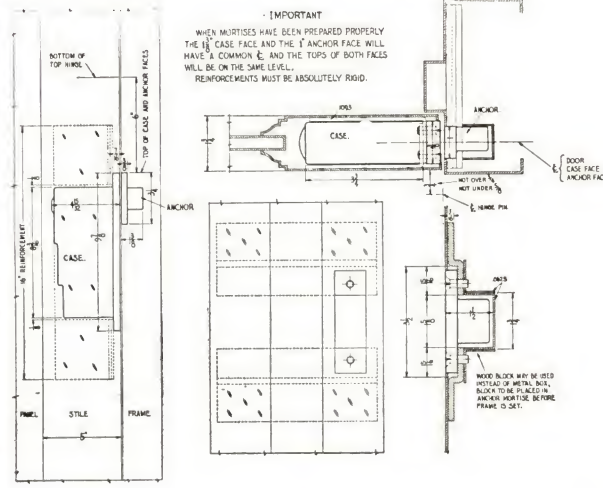
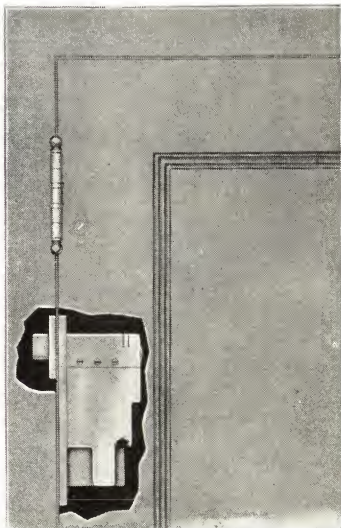


At left: Installation detail of Invisible Door Closer installed on Existing Work. At right: On New Work; note steel plate. In both cases we recommend the use of ball-bearing butts. The proper hinge clearance is obtainable with $4\frac{1}{2} \times 4\frac{1}{2}$ -in. butts.

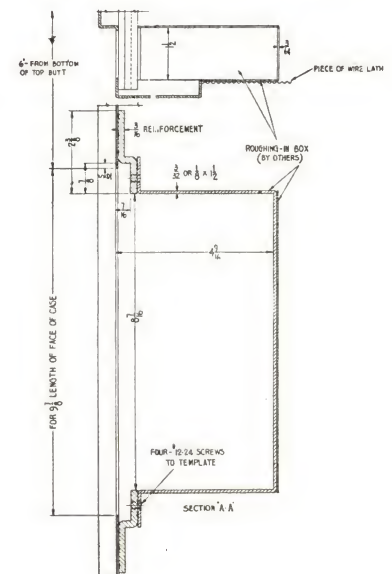
ON NEW WORK



EASILY APPLIED TO *Metal or Kalamein* DOORS FOR METAL DOORS AND FRAMES



FOR WOOD OR KALAMEIN DOOR AND METAL FRAME



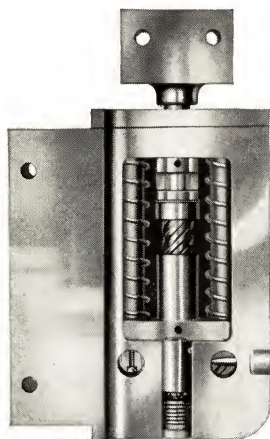
When the Invisible Door Closer is applied to metal frames and metal doors, it is set in the door stile—as shown above. When used with metal frames and wood or kalamein doors, however, it is set in the door frame; note (at right) the method of preparing the steel buck for case of Closer.

In both cases we recommend the use of ball-bearing butts. The proper hinge clearance is obtainable with $4\frac{1}{2} \times 4\frac{1}{2}$ -in. butts.

R U S S W I N

RUSSWIN-NEWTON

CHECKING PIVOTS • FOR W. C. STALL DOORS, OFFICE RAILING GATES, DWARF DOORS, Etc.



The Simple Construction of the RUSSWIN-NEWTON Checking Pivot.

THE RUSSWIN-NEWTON Checking Pivot was originally designed to check the only door in the building that had been left to slam—the toilet stall door. The performance of this Pivot, however, was so satisfactory that its use spread rapidly to dwarf doors, railing gates, coupon booth doors—in fact to many unanticipated uses. The device is specifically designed for the purpose for which it is recommended. The RUSSWIN-NEWTON Checking Pivot will hold the door all the way closed—or hold it all the way open. It provides complete noiseless control of the door from start to stop.

WIDE SCOPE OF USES

With particular reference to toilet stall doors, the RUSSWIN-NEWTON Checking Pivot is applicable to all frontal materials—Marble, Slate—Carrara glass, Vitrolite, and to all types of posts. When Marble, Slate, Carrara Glass or Vitrolite are used the Pivot—because it operates gently and quietly and eliminates the slamming of doors—provides positive insurance against cracking or loosening of the partitions, frontals or fittings. With metal stalls, it eliminates the objectionable “clang.” They are easily applied to wood, metal or composition doors and are sagless, non-rusting and self-lubricating.

SIMPLE CONSTRUCTION

The construction of the RUSSWIN-NEWTON Checking Pivot is amazingly simple—only *two* moving parts. These parts operate in the checking fluid which also acts as a lubricant.

Springs are of the compression automobile valve type and are made of high carbon steel, oil tempered after winding.

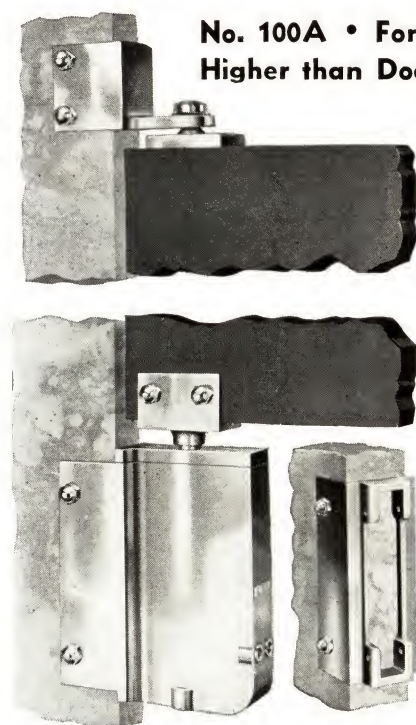
Although the Pivot is available for frontals and doors of all thicknesses, its standard size is designed for frontals $1\frac{1}{8}$ or $1\frac{1}{4}$ inch thick and for doors $1\frac{1}{8}$ and $1\frac{1}{4}$ inch thick. As doors equipped with this Pivot are always under complete control, thicker frontals and doors are not necessary.



The RUSSWIN-NEWTON Checking Pivot Is Readily Applied to Both Self-Closing and Self-Opening Doors.



FOR FRONTALS OF ANY THICKNESS

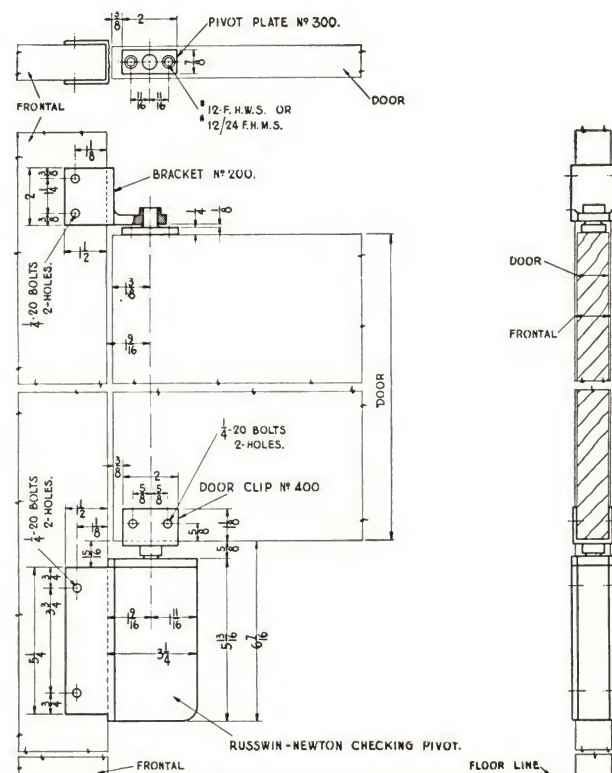


No. 100A • For Partitions Higher than Door

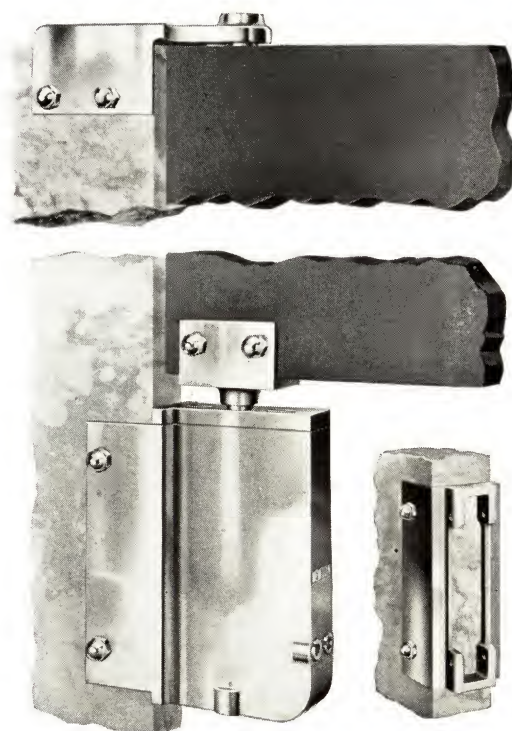
Diagram at right gives complete detail for installing the RUSSWIN-NEWTON Checking Pivot on partitions higher than the door itself and *not* over 1 1/4 inch thick. Should, however, the frontal be more than 1 1/4 inch thick, Adapter No. 500 (shown at left) is used. (In this case specify whether center hung or offset.)

Specify: Thickness of frontal; hand and thickness of door; open in or out.

POLISHED
CHROME
FINISH



No. 100B • For Partitions Same Height as Door

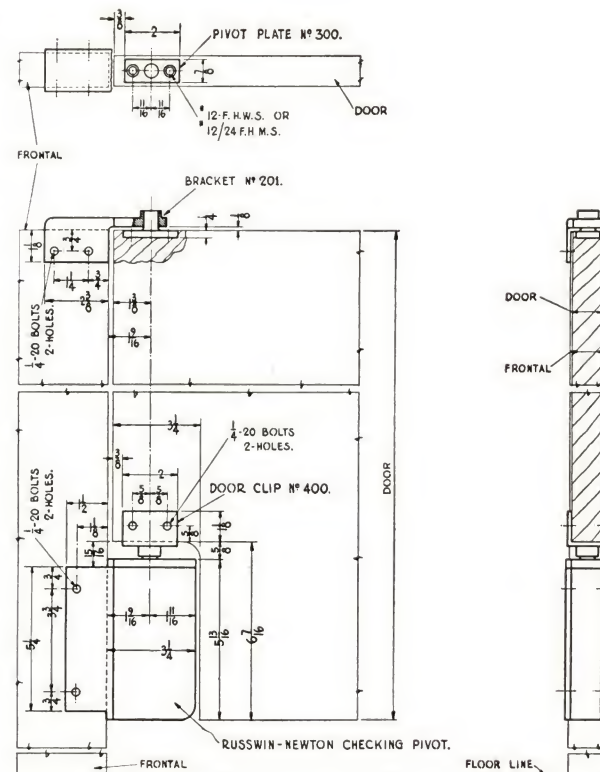


Also for application to face of jamb of wood partition or office rail.

Diagram at right gives complete detail for installing the RUSSWIN-NEWTON Checking Pivot on partitions same height as door and *not* over 1 1/4 inch thick. Should however, the frontal be more than 1 1/4 inch thick, Adapter No. 500 (shown at left) is used. (In this case specify whether center hung or offset.)

Specify: Thickness of frontal; hand and thickness of door; open in or out.

POLISHED
CHROME
FINISH



R U S S W I N

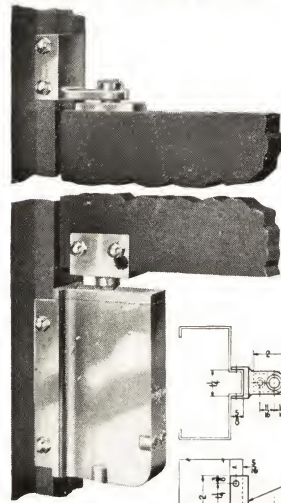
FOR METAL POSTS OF ANY TYPE

No. 100SF • FOR PARTITIONS HIGHER THAN DOOR

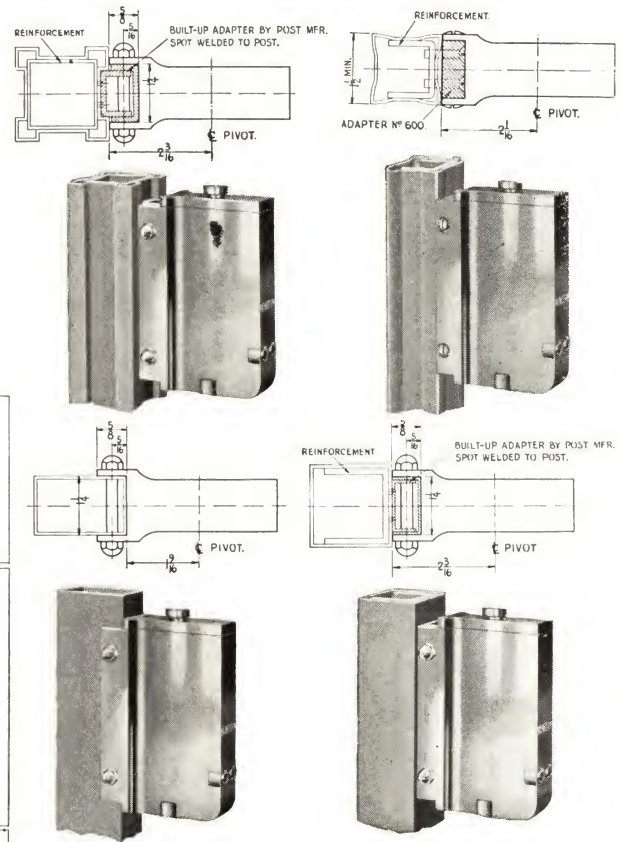
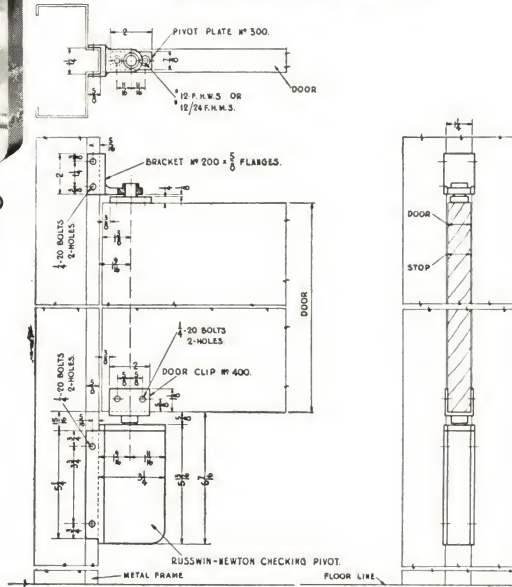
Diagram below gives complete detail of installing the RUSSWIN-NEWTON Checking Pivot on hanging stile $\frac{5}{8} \times 1\frac{1}{4}$ inch.

At right are illustrated methods of attaching the Pivot to other types of metal posts.

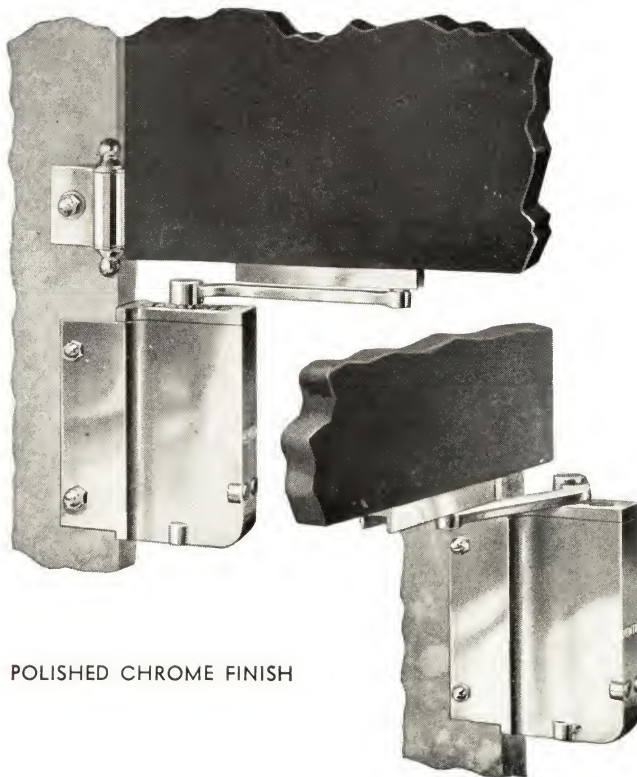
Specify: Hand and thickness of door; open in or out.



POLISHED CHROME FINISH



FOR USE WITH EXISTING HINGES



POLISHED CHROME FINISH

No. 100AA

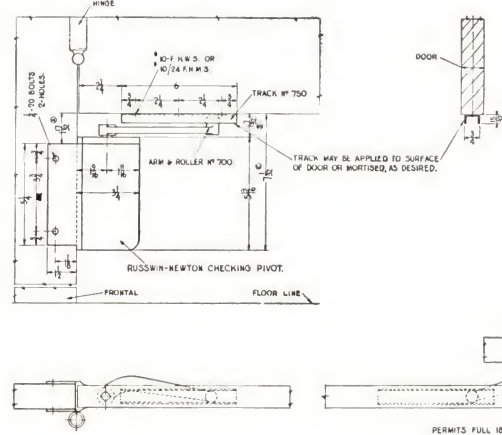


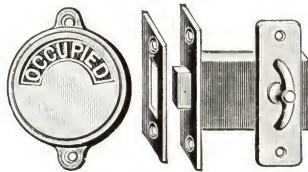
Diagram shows application of Pivot as an auxiliary in conjunction with hinges already installed.

Specify: Thickness of frontal; hand of door; center hung or offset; open in or out.

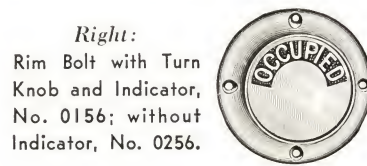
R U S S W I N

LAVATORY DOOR HARDWARE

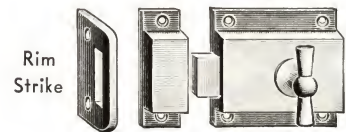
LAVATORY BOLTS • Cast Brass



Left:
Mortise Bolt with
Turn Knob and
Indicator No.
0166.



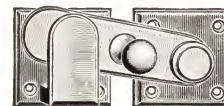
Right:
Rim Bolt with Turn
Knob and Indicator,
No. 0156; without
Indicator, No. 0256.



Rim
Strike



Right: Slide Bolt No. 0158



Left: Latching Bolt No. 0172

Number	Case, in.	Front, in.	Backset, in.	Strike	Indicator	Doors Open	Weight, lbs. per doz.
0166 (Mortise)	1 1/2 x 2 1/2 x 1/2	3 1/8 x 7/8	1 7/8	Mortise	With	In or Out	11
0156 (Rim)	2 1/2 x 2 5/8		1 5/8	Mortise	With	Out	13
0156 1/2 (Rim)	2 1/2 x 2 5/8		1 5/8	Rim	With	Out	12 1/2
0256 (Rim)	2 1/2 x 2 5/8		1 5/8	Mortise	Without	In or Out	9
0256 1/2 (Rim)	2 1/2 x 2 5/8		1 5/8	Rim	Without	In or Out	8

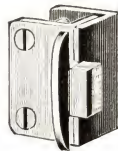
Turn knob plate on No. 0166 is 3 x 1 inch and has rubber tip

LAVATORY STRIKES OR BUMPERS • Cast Brass

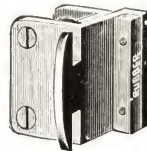
These strikes are suitable for marble or slate partitions 1 1/8, 1 1/4, 1 1/2 and 2 inches thick. They are adjustable 1/8 inch under or 1/8 inch over given size of marble or slate.



Strike No. 21



Strike No. 22

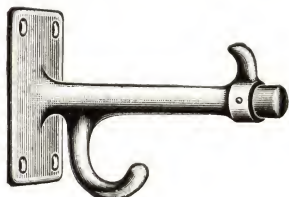


Strike No. 22 1/2



Strike No. 24

Number	For Doors Opening	Marble and Door Flush	For Bolts
21	In	On Inside	No. 0156
22	Out	On Inside	No. 0172
22 1/2	In	On Inside	No. 0172
24	Out	On Inside	No. 0166
		On Outside	No. 0256



LAVATORY DOOR COAT HOOK AND BUMPER

This combination coat hook and bumper is made in either cast brass or bronze.

Number	Projection, in.	Base, in.	Weight, lbs. per doz.
206	4 1/8	3 x 2	5

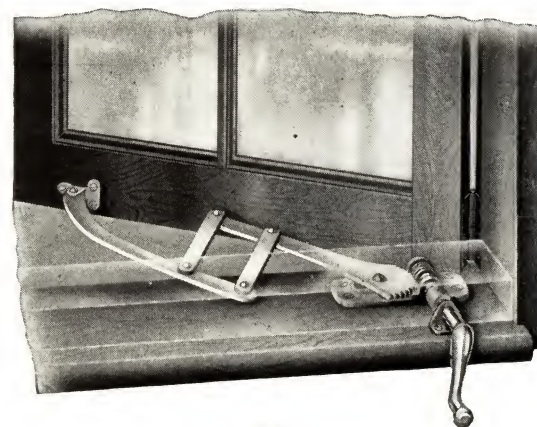
R U S S W I N

"EVERLOCK" CASEMENT SASH ADJUSTER

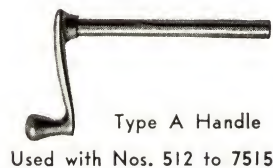
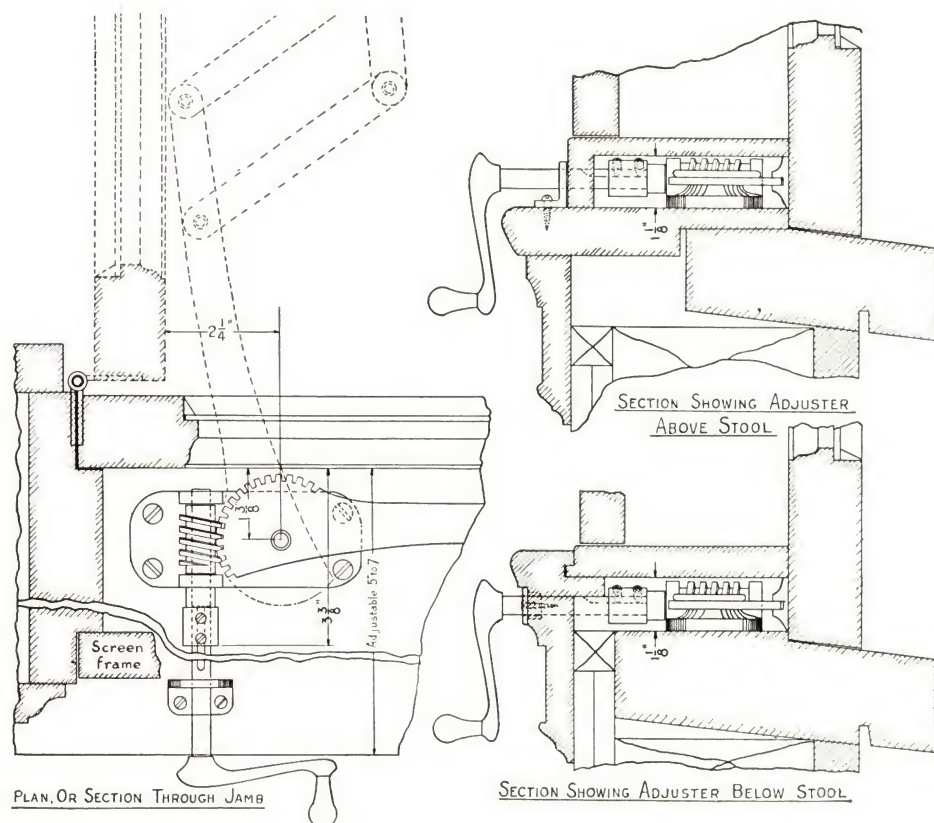
THIS thoroughly modern Adjuster for casement sash opening out is operated from the inside without disturbing screen. It opens to any degree up to a right angle and is securely locked at any angle. It can be installed either below the window stool or on top of the stool under a wood cover. In either case, the entire mechanism—except handle—is totally concealed.

Made in two sizes: 12-inch for sash 24-inch and under; 15-inch for sash 24-inch and over. Not reversible; specify hand.

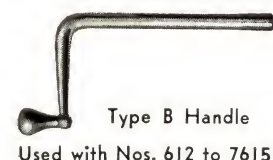
Number	Length in.	Handle	Operating Parts	Weight, Dozen, lbs.
512	12	Type A Brass	Solid Brass, Dipped and Lacquered	28½
515	15	Type A Brass	Solid Brass, Dipped and Lacquered	31½
612	12	Type B Brass	Solid Brass, Dipped and Lacquered	28½
615	15	Type B Brass	Solid Brass, Dipped and Lacquered	31½
7512	12	Type A Brass	Galvanized Steel	28½
7515	15	Type A Brass	Galvanized Steel	31½
7612	12	Type B Brass	Galvanized Steel	28½
7615	15	Type B Brass	Galvanized Steel	31½



512
Type of 515 to 7615



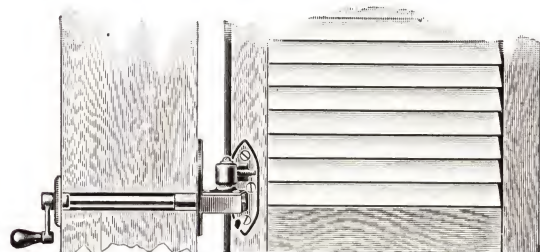
Type A Handle
Used with Nos. 512 to 7515



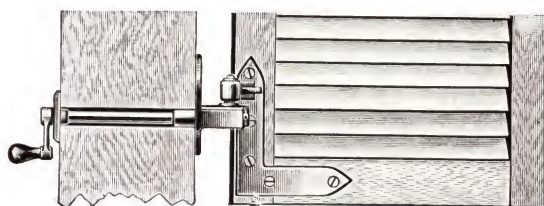
Type B Handle
Used with Nos. 612 to 7615

RUSSWIN

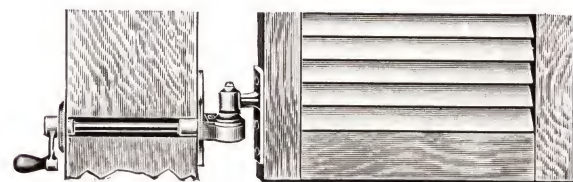
BLIND OR SHUTTER WORKER



702 1/2 to 708 and 7002 1/2 to 7008



712 1/2 to 715 1/2 and 7012 1/2 to 7015 1/2



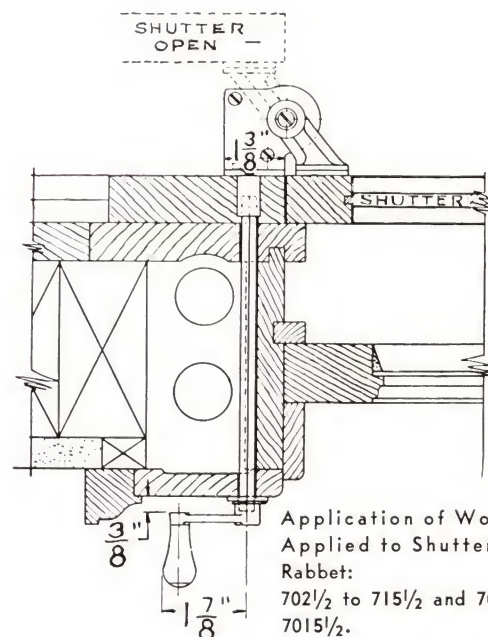
753 3/4 to 7053 3/4

Three Types of Brackets on Russwin Shutter Worker

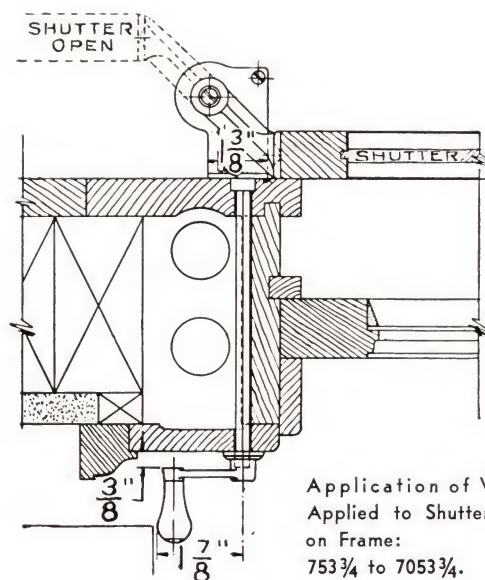
THIS strongly constructed worm gear device automatically locks shutter at any position, open, at any angle, or closed. Set consists of two top hinges and two Workers with handles and plates. The gear operation is made with cut bronze gears to assure long life and ease of operation. Arms and case are regularly furnished in unfinished malleable iron (except handle) and with 10 1/8-inch rods; longer rods, however, are available. If necessary, handles with 2 or 2 1/2-inch offset can be supplied. Handles and rose on inside can be furnished in any finish.

This RUSSWIN Shutter Worker can be furnished to detail for practically any condition in stone, brick or frame construction.

Number With Bronze Handle and Plate	Number With Plated Handle and Plate	Hinge No.	Throw, in.
702 1/2	7002 1/2	02 1/2	2 1/2
703 3/4	7003 3/4	03 3/4	3 3/4
704 1/2	7004 1/2	04 1/2	4 1/2
705 1/2	7005 1/2	05 1/2	5 1/2
708	7008	08	8
712 1/2	7012 1/2	12 1/2	2 1/2
713 3/4	7013 3/4	13 3/4	3 3/4
714 1/2	7014 1/2	14 1/2	4 1/2
715 1/2	7015 1/2	15 1/2	5 1/2
753 3/4	7053 3/4	53 3/4	3 3/4



Application of Worker as Applied to Shutter Set in Rabbet:
702 1/2 to 715 1/2 and 7002 1/2 to 7015 1/2.



Application of Worker as Applied to Shutter Set Flush on Frame:
753 3/4 to 7053 3/4.

Russwin

SPECIFICATION SERVICE

The Russell & Erwin Mfg. Company's main office and factory is located in New Britain, Connecticut. Branch offices and sample rooms are maintained in New York City at 285 Madison Avenue and in Chicago at 435 Michigan Avenue.

Each of the above offices maintains a staff of Hardware engineers to assist you in all details relating to builders' Hardware.

In every principal city the same expert service and assistance is available through the authorized RUSSWIN dealer. Every authorized dealer maintains a sample room for your convenience, where you may view and select Hardware from actual samples. You will find their assistance to be invaluable in the writing of specifications and the selection of the proper functioning locks for the various door openings. This service is, of course, without obligation.

Do not hesitate to call on any of the above offices or the local RUSSWIN dealer in your city . . . and make use of this service.

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RUSSELL & ERWIN MFG. CO.

The American Hardware Corp. Successor

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